## What is claimed is:

1	1.	A connector assembly, comprising:					
2		a connector;					
3		a cable attachable at one end to the connector, the cable including:					
4	٠	a first conductive layer,					
5		a second conductive layer disposed over the first conductive					
6		layer, and					
7		a layer of insulation material disposed at least between the first					
8	cond	uctive layer and the second conductive layer; and					
9	a plurality of capacitors connected between the first conductive layer and						
10	the second conductive layer.						
1	2.	The connector assembly of claim 1, wherein the first conductive layer and the					
2		layer of insulation material are formed in a predetermined pattern.					
1	3.	The connector assembly of claim 1, wherein the cable is flexible.					
1	4.	The connector assembly of claim 1, wherein the layer of insulation material is a					
2		coating of mylar material substantially completely covering the first and second					
3		conductive layers.					
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1	5.	The connector assembly of claim 1, wherein the capacitors are located to					
2		minimize voltage droop between the capacitors and an IC when the connector is					
3		attached to the IC.					
1	6.	The connector assembly of claim 1, wherein a quantity of the plurality of					
2	0.	capacitors and a size of each of the plurality of capacitors are selected to provide					
3		a predetermined reduction in equivalent series resistance.					
2		a predetermined reduction in equivalent series resistance.					

1	7.	A system for testing an integrated circuit, comprising:
2		a chassis for holding the integrated circuit;
3		a connector to connect a power supply to the integrated circuit;
4		a cable attachable at one end to the connector, the cable including:
5		a first conductive layer,
6		a second conductive layer disposed over the first conductive
7	layer,	, and
8		a layer of insulation material disposed at least between the first
9	condi	uctive layer and the second conductive layer; and
0		a plurality of capacitors connected between the first conductive layer and
1	the se	econd conductive layer.
1	8.	The system of claim 7, wherein the cable is flexible.
1	9.	The system of claim 8, further comprising a floating and self-aligning
2		suspension system to which the connector is attached.
1	10.	The system of claim 9, wherein the floating and self-aligning suspension system
2		comprises:
3		an outer frame;
4		an inner frame disposed within the outer frame, the connector being
5	moun	ated to the inner frame; and
6		a biasing mechanism attached to the inner frame.
1	11.	The system of claim 7, wherein a quantity of the plurality of capacitors and a
2		size of each of the plurality of capacitors are selected to provide a predetermined
3		reduction in equivalent series resistance, voltage droop and settling time.
1	12.	The system assembly of claim 7, wherein the first conductive layer and the layer
2		of insulation material are formed in a predetermined pattern.

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1	13.	The system	in c	laim	7, w	herein	the capacito	ors are located	to minimize	voltage
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- droop between the capacitors and the IC when the connector is attached to the
- 3 IC.
- 1 14. A electronic system, comprising:
- 2 at least one integrated circuit;
- a connector to connect the integrated circuit to a power supply;
- 4 a cable attachable at one end to the connector, the cable including:
- 5 a first conductive layer,
- a second conductive layer disposed over the first conductive
- 7 layer, and
- 8 a layer of insulation material disposed at least between the first
- 9 conductive layer and the second conductive layer; and
- a plurality of capacitors connected between the first conductive layer and
- 11 the second conductive layer.
- 1 15. The system of claim 14, wherein the first conductive layer, the second
- 2 conductive layer and the layer of insulation material are flexible.
- 1 16. The system of claim 14, wherein the first conductive layer and the layer of
- 2 insulation material are formed in a predetermined pattern for connection of each
- 3 of the plurality of capacitors in parallel between the first conductive layer and
- 4 the second conductive layer.
- 1 17. The system of claim 14, wherein a quantity of the plurality of capacitors and a
- 2 size of each of the plurality of capacitors are selected to provide a predetermined
- reduction in equivalent series resistance, voltage droop and settling time.
- 1 18. The system in claim 14, wherein the capacitors are located to minimize voltage
- 2 droop between the capacitors and an IC when the connector is attached to the IC.

1	19. A method of making a connector assembly, comprising:					
2	disposing a first conductive layer over a second conductive layer to					
3	define a cable, wherein the first conductive layer is insulated from the second					
4	conductive layer;					
5	connecting the first conductive layer to a terminal of a connector plug;					
6	connecting the second conductive layer to another terminal of the					
7	connector plug; and					
8	connecting a plurality of capacitors between the first and second					
9	conductive layers.					
1	20. The method of claim 19, wherein connecting the plurality of capacitors					
2	comprises:					
3	removing a portion of the insulation material from the first conductive					
4	layer according to a predetermined pattern to expose at least a portion of the first					
5	conductive layer;					
- 6	forming openings through the first conductive layer according to another					
7	predetermined pattern;					
8	removing a portion of the insulation material covering the second					
9	conductive layer according to the other predetermined pattern to expose at least a					
10	portion of the second conductive layer through the opening in the first conductive layer					
11	and insulation material;					
12	connecting one terminal of each capacitor to the exposed first conductive					
13	layer; and					
1/1	connecting another terminal of each canacitor to the exposed second					

The method of claim 19, wherein the first conductive layer, the second 21. conductive layer and the layer of insulation material are flexible. 2

conductive layer.

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1	22.	The method of claim 19, further comprising coating the first and second
2		conductive layers with mylar.

- The method of claim 19, further comprising selecting a quantity of the plurality of capacitors and a size of each of the plurality of capacitors to provide a predetermined reduction in equivalent series resistance, voltage droop and settling time.
- 1 24. A method of making a testing system for an integrated circuit, comprising:
- 2 forming a chassis for holding the integrated circuit; and
- forming a connector assembly for attaching a power supply to the
- 4 integrated circuit, wherein forming the connector assembly includes:
- 5 disposing a first conductive layer over a second conductive layer
- 6 to define a cable, wherein the first conductive layer is insulated from the second
- 7 conductive layer,
- 8 connecting the first conductive layer to a terminal of a connector
- 9 plug,
- 10 connecting the second conductive layer to another terminal of the
- 11 connector plug, and
- connecting a plurality of capacitors between the first and second
- 13 conductive layers.
  - 1 25. The method of claim 24, wherein connecting the plurality of capacitors
- 2 comprises:
- 3 removing a portion of the insulation material from the first conductive
- 4 layer according to a predetermined pattern to expose at least a portion of the first
- 5 conductive layer;
- forming openings through the first conductive layer according to another
- 7 predetermined pattern;

8		removing a portion of the insulation material covering the second					
9	condu	conductive layer according to the other predetermined pattern to expose at least a					
10	portio	portion of the second conductive layer through the opening in the first conductive layer					
11	and insulation material;						
12	connecting one terminal of each capacitor to the exposed first conductive						
13	layer; and						
14	connecting another terminal of each capacitor to the exposed second						
15	condu	active layer.					
1	26.	The method of claim 24, further comprising:					
2		forming a floating and self-aligning suspension system; and					
3		attaching the connector assembly to the floating and self-aligning					
4	suspension system.						
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1	27.	The method of claim 24, wherein forming the floating and self-aligning					
2		suspension system comprises:					
3		forming an inner frame;					
4		attaching a biasing arrangement to the inner frame;					
5		mounting the connector to the inner frame;					
6		forming an outer frame to mount on the chassis; and					
7		disposing the inner frame within the outer frame, wherein the biasing					
8	arrangement permits the inner frame to move relative to the outer frame to allow the						
9	conne	ctor to self-align and attach to a mating connector on the integrated circuit.					
1	28.	The method of claim 24, wherein the first conductive layer, the second					
2		conductive layer and the layer of insulation material are flexible.					
1	29.	The method of claim 24, further comprising selecting a quantity of the plurality					

of capacitors and a size of each of the plurality of capacitors to provide a

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- predetermined reduction in equivalent series resistance, voltage droop and
- 4 settling time.